Refine Search

Search Results -

Terms	Documents
L1.clm.	2

Database:
- US Pre-Grant Publication Full-Text Database
- US Patents Full-Text Database
- US OCR Full-Text Database
- EPO Abstracts Database
- JPO Abstracts Database
- Derwent World Patents Index
- IBM Technical Disclosure Bulletins

Search: L2

Refine Search

Recall Text | Clear | Interrupt

Search History

DATE: Monday, February 13, 2006 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB; PLUR=YES; OP=OR			
L2	L1.clm.	2	L2
L1	(optical adj1 (disk or disc)) same (control$4 near3 (board or card)) same (external or remote or separate$2)	47	L1

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
(optical adj1 (disk or disc)) same (control$4 near3 (board or card)) same (external or remote or separate$2) and L3	2

Database:
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L4

Refine Search | Recall Text | Clear | Interrupt

Search History

DATE: Monday, February 13, 2006 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,USPT,USOC; PLUR=YES; OP=OR			
L4	(optical adj1 (disk or disc)) same (control$4 near3 (board or card)) same (external or remote or separate$2) and l3	2	L4
L3	720/652,653.ccls.	52	L3
DB=PGPB; PLUR=YES; OP=OR			
L2	L1.clm.	2	L2
L1	(optical adj1 (disk or disc)) same (control$4 near3 (board or card)) same (external or remote or separate$2)	47	L1

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L1 same (driv$3 adj1 unit)	33

Database:
- US Pre-Grant Publication Full-Text Database
- US Patents Full-Text Database
- US OCR Full-Text Database
- EPO Abstracts Database
- JPO Abstracts Database
- Derwent World Patents Index
- IBM Technical Disclosure Bulletins

Search: L4

Refine Search | Recall Text | Clear | Interrupt

Search History

DATE: Monday, February 13, 2006 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,USPT,USOC; PLUR=YES; OP=OR			
L4	L1 same (driv$3 adj1 unit)	33	L4
L3	L1 same driving	170	L3
L2	L1 same (driving adj1 unit)	2	L2
L1	(disk or disc) same (control$4 near3 (board or card)) same (external or remote or separate$2)	1913	L1

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L1 same (driv$3 adj1 unit)	0

Database:
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L5

Refine Search

Recall Text Clear Interrupt

Search History

DATE: Monday, February 13, 2006 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L5	L1 same (driv$3 adj1 unit)	0	L5
DB=PGPB,USPT,USOC; PLUR=YES; OP=OR			
L4	L1 same (driv$3 adj1 unit)	33	L4
L3	L1 same driving	170	L3
L2	L1 same (driving adj1 unit)	2	L2
L1	(disk or disc) same (control$4 near3 (board or card)) same (external or remote or separate$2)	1913	L1

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L1 same (driv$3 adj1 unit)	2

Database:
- US Pre-Grant Publication Full-Text Database
- US Patents Full-Text Database
- US OCR Full-Text Database
- EPO Abstracts Database
- JPO Abstracts Database
- Derwent World Patents Index
- IBM Technical Disclosure Bulletins

Search: L2

Refine Search | Recall Text | Clear | Interrupt

Search History

DATE: Monday, February 13, 2006 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,USPT,USOC; PLUR=YES; OP=OR			
L2	L1 same (driv$3 adj1 unit)	2	L2
L1	(optical adj1 (disk or disc)) same (control$4 near3 (board or card)) same (external or remote or separate$2)	101	L1

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L1 same (driv$3 adj1 unit)	0

Database: US Pre-Grant Publication Full-Text Database; US Patents Full-Text Database; US OCR Full-Text Database; EPO Abstracts Database; JPO Abstracts Database; Derwent World Patents Index; IBM Technical Disclosure Bulletins

Search: L3

Refine Search | Recall Text | Clear | Interrupt

Search History

DATE: Monday, February 13, 2006 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L3	L1 same (driv$3 adj1 unit)	0	L3
DB=PGPB,USPT,USOC; PLUR=YES; OP=OR			
L2	L1 same (driv$3 adj1 unit)	2	L2
L1	(optical adj1 (disk or disc)) same (control$4 near3 (board or card)) same (external or remote or separate$2)	101	L1

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L1 same ((driv$3 adj1 unit) or head)	8

Database:
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L4

Refine Search

Recall Text | Clear | Interrupt

Search History

DATE: Monday, February 13, 2006 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,USPT,USOC; PLUR=YES; OP=OR			
L4	L1 same ((driv$3 adj1 unit) or head)	8	L4
DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L3	L1 same (driv$3 adj1 unit)	0	L3
DB=PGPB,USPT,USOC; PLUR=YES; OP=OR			
L2	L1 same (driv$3 adj1 unit)	2	L2
L1	(optical adj1 (disk or disc)) same (control$4 near3 (board or card)) same (external or remote or separate$2)	101	L1

END OF SEARCH HISTORY

L4: Entry 4 of 8 File: PGPB Sep 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040181624
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040181624 A1

TITLE: Optical disc drive

PUBLICATION-DATE: September 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Bae, Byoung-young	Suwon-si		KR
Hong, Soon-kyo	Seoul		KR

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	COUNTRY	TYPE CODE
Samsung Electronics, Co., Ltd.	Suwon-City		KR	03

APPL-NO: 10/743327 [PALM]
DATE FILED: December 23, 2003

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
KR	2002-85444	2002KR-2002-85444	December 27, 2002

INT-CL-PUBLISHED: [07] G06 F 13/00

US-CL-PUBLISHED: 710/100
US-CL-CURRENT: 710/100

REPRESENTATIVE-FIGURES: 2

ABSTRACT:

An optical disc drive that includes a driving unit including a spindle motor to rotate an optical disc, an optical pickup to access the optical disc, and a connection board connected to a computer. A control board to control the driving unit, is installed at an interface device of the computer, separate from the driving unit, and is connected to the connection board.

Refine Search

Search Results -

Terms	Documents
L1 and L5	3

Database:
- US Pre-Grant Publication Full-Text Database
- US Patents Full-Text Database
- US OCR Full-Text Database
- EPO Abstracts Database
- JPO Abstracts Database
- Derwent World Patents Index
- IBM Technical Disclosure Bulletins

Search: L6

Refine Search

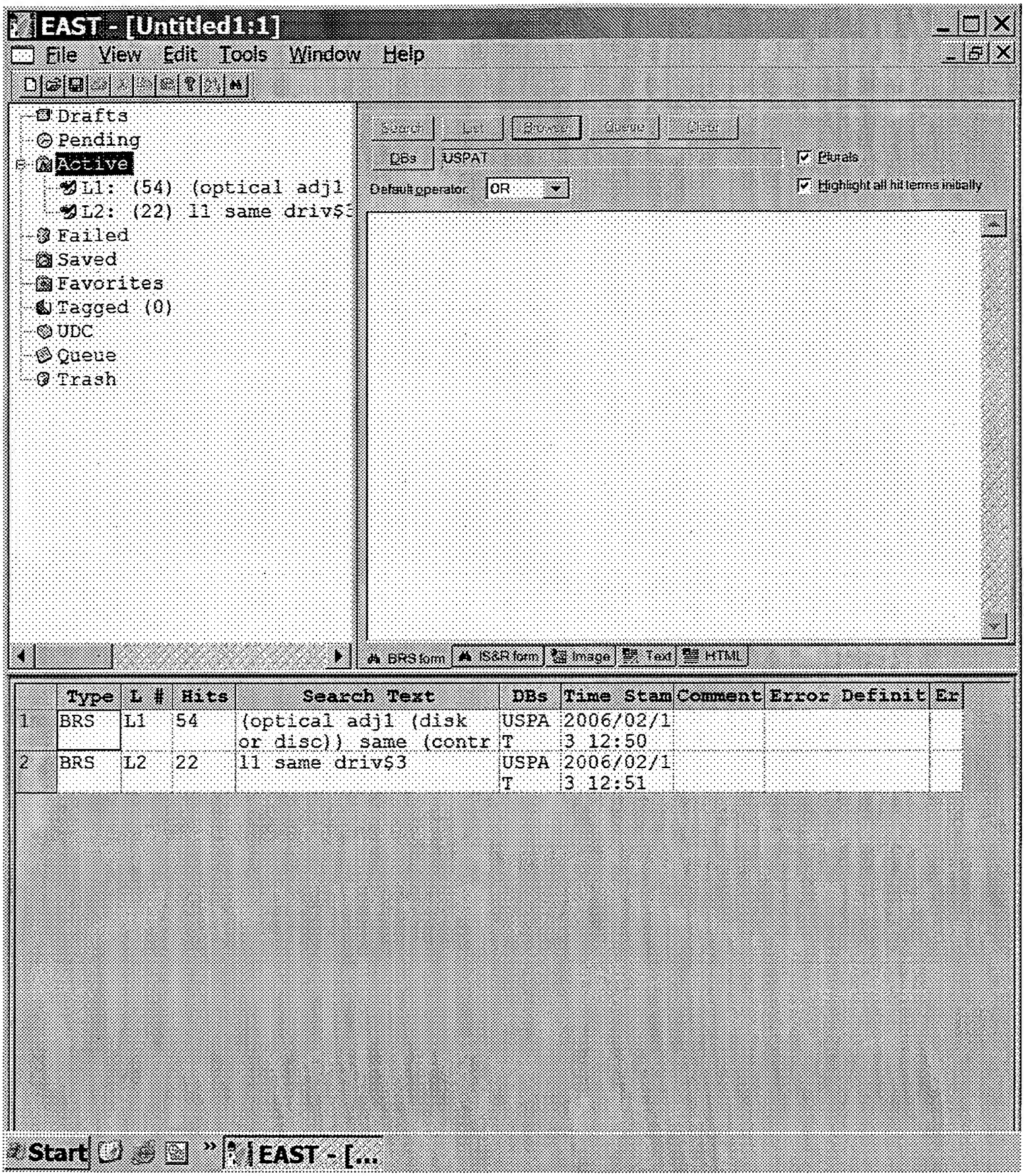
Recall Text | Clear | Interrupt

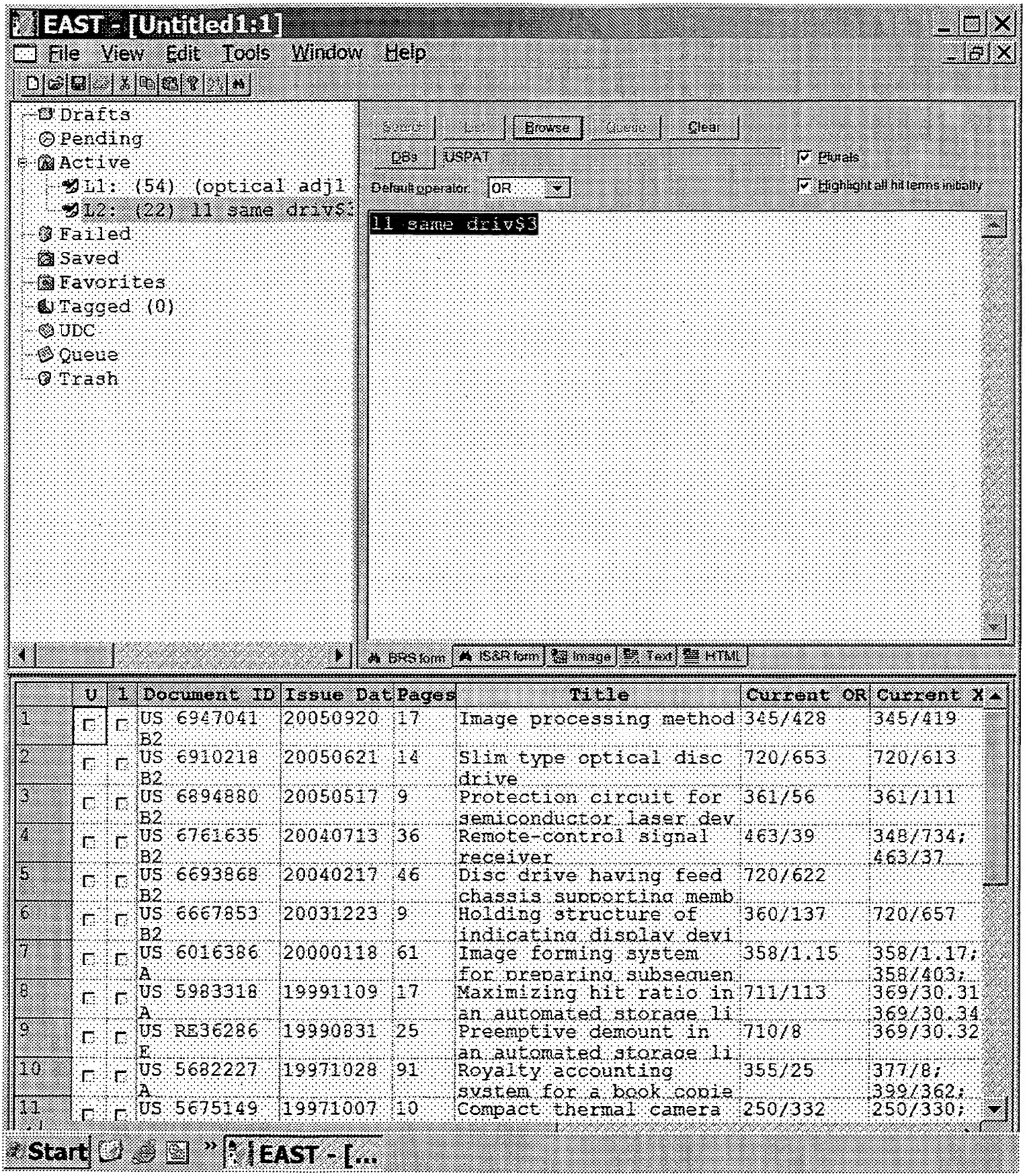
Search History

DATE: Monday, February 13, 2006 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,USPT,USOC; PLUR=YES; OP=OR			
L6	l1 and L5	3	L6
L5	710/100,300,301,313,315,1;235/454;369/18,24.01,47.1,44.31;711/111,112.ccls.	8886	L5
L4	L1 same ((driv$3 adj1 unit) or head)	8	L4
DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L3	L1 same (driv$3 adj1 unit)	0	L3
DB=PGPB,USPT,USOC; PLUR=YES; OP=OR			
L2	L1 same (driv$3 adj1 unit)	2	L2
L1	(optical adj1 (disk or disc)) same (control$4 near3 (board or card)) same (external or remote or separate$2)	101	L1

END OF SEARCH HISTORY


EAST - [Untitled1:1]
File View Edit Tools Window Help
Drafts
Pending
Active
L1: (54) (optical adj1
L2: (22) l1 same driv$3
Failed
Saved
Favorites
Tagged (0)
UDC
Queue
Trash
Search
Edit
Browse
Queue
Clear
DBs
USPAT
Plurals
Default operator
OR
Highlight all hit terms initially
BRS form
IS&R form
Image
Text
HTML
Type L # Hits Search Text DBs Time Stam Comment Error Definit Er
1 BRS L1 54 (optical adj1 (disk or disc)) same (contr USPAT 2006/02/13 12:50
2 BRS L2 22 l1 same driv$3 USPAT 2006/02/13 12:51
Start
EAST - [...


EAST - [Untitled1:1]
File View Edit Tools Window Help
Drafts
Pending
Active
L1: (54) (optical adj1
L2: (22) l1 same driv$3
Failed
Saved
Favorites
Tagged (0)
UDC
Queue
Trash
Search
Edit
Browse
Queue
Clear
DBs
USPAT
Plurals
Default operator:
OR
Highlight all hit terms initially
l1 same driv$3
BRS form
IS&R form
Image
Text
HTML
U
L
Document ID
Issue Dat
Pages
Title
Current OR
Current X
1 US 6947041 B2 20050920 17 Image processing method 345/428 345/419
2 US 6910218 B2 20050621 14 Slim type optical disc drive 720/653 720/613
3 US 6894880 B2 20050517 9 Protection circuit for semiconductor laser dev 361/56 361/111
4 US 6761635 B2 20040713 36 Remote-control signal receiver 463/39 348/734; 463/37
5 US 6693868 B2 20040217 46 Disc drive having feed chassis supporting memb 720/622
6 US 6667853 B2 20031223 9 Holding structure of indicating display devi 360/137 720/657
7 US 6016386 A 20000118 61 Image forming system for preparing subsequen 358/1.15 358/1.17; 358/403;
8 US 5983318 A 19991109 17 Maximizing hit ratio in an automated storage li 711/113 369/30.31 369/30.34
9 US RE36286 E 19990831 25 Preemptive demount in an automated storage li 710/8 369/30.32
10 US 5682227 A 19971028 91 Royalty accounting system for a book copie 355/25 377/8; 399/362;
11 US 5675149 19971007 10 Compact thermal camera 250/332 250/330;
Start
EAST - [...

Results for "(((optical disk)<in>metadata) <and> ((driv* unit)<in>metadata))"

e-mail printer friendly

Your search matched **2** of **1318251** documents.

A maximum of **100** results are displayed, **25** to a page, sorted by **Relevance** in **Descending** order.

» Search Options

View Session History

New Search

Modify Search

(((optical disk)<in>metadata) <and> ((driv* unit)<in>metadata)) Search

Check to search only within this results set

» Key

Display Format: Citation Citation & Abstract

IEEE JNL	IEEE Journal or Magazine
IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

view selected items Select All Deselect All

1. **Parallel file striping on optical jukebox servers**
   Tarraga, J.; Hersch, R.D.;
   Multimedia and Expo, 2002. ICME '02. Proceedings. 2002 IEEE International Conference on
   Volume 2, 26-29 Aug. 2002 Page(s):173 - 176 vol.2
   Digital Object Identifier 10.1109/ICME.2002.1035541
   AbstractPlus | Full Text: PDF(559 KB) IEEE CNF
   Rights and Permissions

2. **Small form factor optical drive: miniaturized plastic high-NA objective and optical drive**
   van der Aa, M.A.H.; van As, M.A.J.; Braun, A.L.; Hendriks, B.H.W.; Liedenbaum, C.T.H.; van Rompaey, B.; van Rosmalen, G.E.; Schleipen, J.J.H.B.; Borg, H.J.; Nijsse, G.J.P.; Nuijens, P.G.; van Aken, N.P.D.M.; Jutte, P.T.; Renckens, J.M.G.; van Steen, R.I.; Bramwell, S.; Stavely, P.;
   Optical Memory and Optical Data Storage Topical Meeting, 2002. International Symposium on
   7-11 July 2002 Page(s):251 - 253
   Digital Object Identifier 10.1109/OMODS.2002.1028631
   AbstractPlus | Full Text: PDF(393 KB) IEEE CNF
   Rights and Permissions

Small form factor optical drive: miniaturized plastic high-NA objective and optical drive

van der Aa, M.A.H. van As, M.A.J. Braun, A.L. Hendriks, B.H.W. Liedenbaum, C.T.H. van Rompaey, B. van Rosmalen, G.E. Schleipen, J.J.H.B. Borg, H.J. Nijsse, G.J.P. Nuijens, P.G. van Aken, N.P.D.M. Jutte, P.T. Renckens, J.M.G. van Steen, R.I. Bramwell, S. Stavely, P.

Philips Res. Labs., Eindhoven, Netherlands

This paper appears in: Optical Memory and Optical Data Storage Topical Meeting, 2002. International Symposium on

Publication Date: 7-11 July 2002

On page(s): 251 - 253

Number of Pages: (xiii+439+ii+70 suppl.)

ISSN:

INSPEC Accession Number:7492349

Digital Object Identifier: 10.1109/OMODS.2002.1028631

Posted online: 2002-11-07 17:06:17.0

Abstract

Recent developments in portable consumer devices call for storage systems solutions using compact **drive units** and cheap storage media. A major advantage of conventional optical storage is the intrinsic low media cost and the ease of manufacturing of replicated ROM media. Third generation optical storage, using a blue laser and a high numerical aperture objective lens, is a perfect technology candidate for a small form factor optical (SFFO) drive. Using third generation optical storage technology 27 GBytes becomes available on a 12 cm optical disc. Using this data density for an SFFO drive, a storage capacity of over 1 Gbytes become feasible on a coin-sized disc. In this paper we report the realization of a SFFO drive, featuring 1 Gbytes on a 30 mm rewritable **optical disc**, with dimensions comparable to Compact Flash PCMCIA-like drives. Our main focus in this paper is on the miniaturization of the basic components of the SFFO drive, such as disc, objective and 2D-actuator. Related subjects in Philips R&D are miniature optics and low-dissipation/high-integration electronics.

Index Terms

Inspec

Controlled Indexing

disc drives electromagnetic actuators microlenses **optical disc** storage optical testing semiconductor lasers

Non-controlled Indexing

1 Gbyte 12 cm 27 Gbyte 2D-actuators 30 mm Compact Flash PCMCIA-like drives ROM media manufacture/replication SFFO drive data density blue laser diodes cheap storage media coin-sized disc compact **drive units** drive storage capacity low-dissipation/high-integration electronics miniature optics miniaturized **optical disk** drives objective lens numerical aperture optical storage system media cost plastic high-NA objectives portable consumer devices rewritable **optical disc** size small form factor optical drives storage systems solutions

Author Keywords

Not Available

References

No references available on IEEE Xplore.

Citing Documents

No citing documents available on IEEE Xplore.

Results for "(((optical disk)<in>metadata) <and> ((driv* unit)<in>metadata))<and> (..."

Your search matched **0** documents.

A maximum of **100** results are displayed, **25** to a page, sorted by **Relevance** in **Descending** order.

» Search Options

View Session History

New Search

Modify Search

(((optical disk)<in>metadata) <and> ((driv* unit)<in>metadata))<and> (control*<in Search

Check to search only within this results set

Display Format: Citation Citation & Abstract

» Key

IEEE JNL	IEEE Journal or Magazine
IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

No results were found.

Please edit your search criteria and try again. Refer to the Help pages if you need assistance revising your search.

Indexed by Inspec